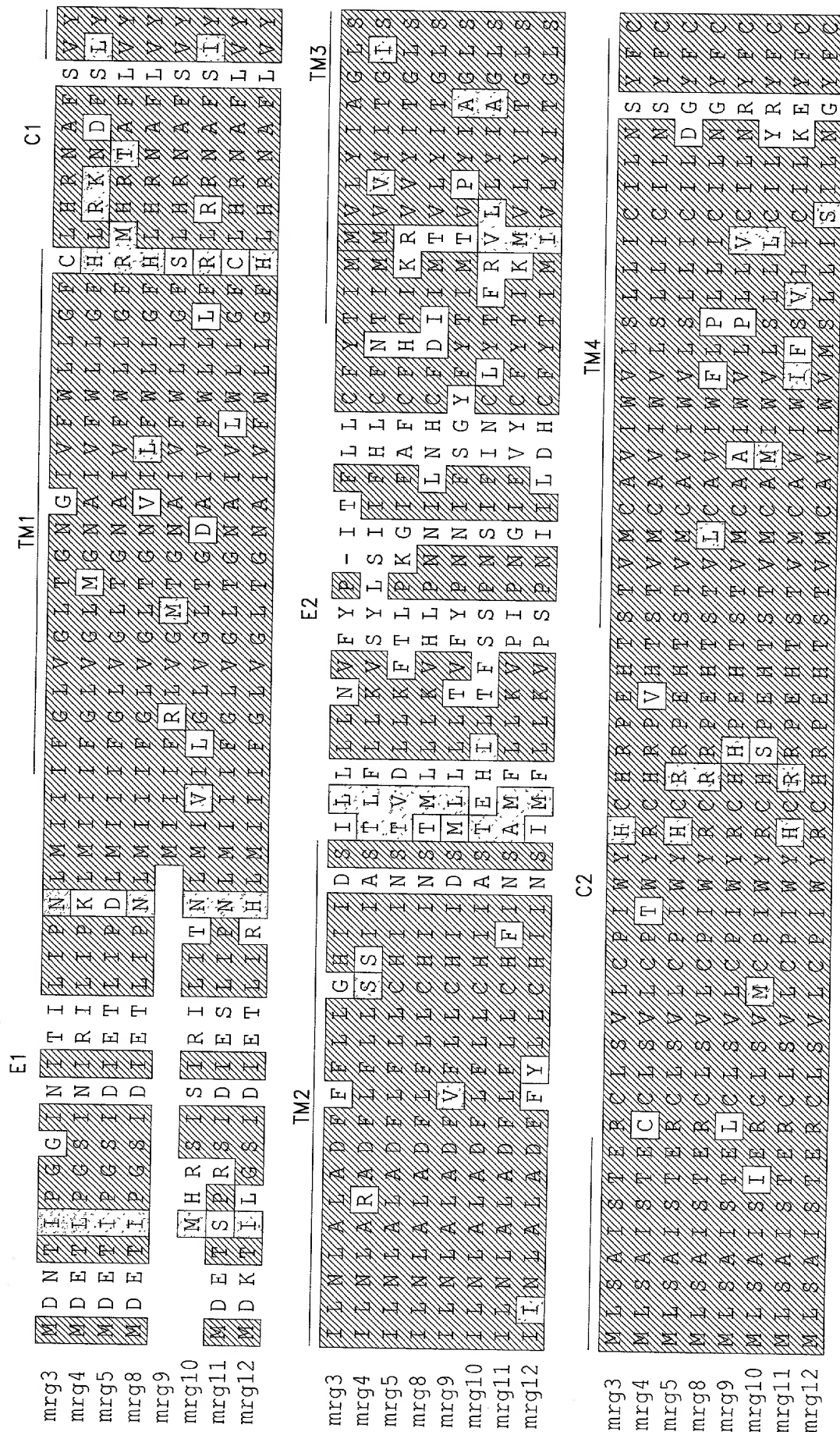


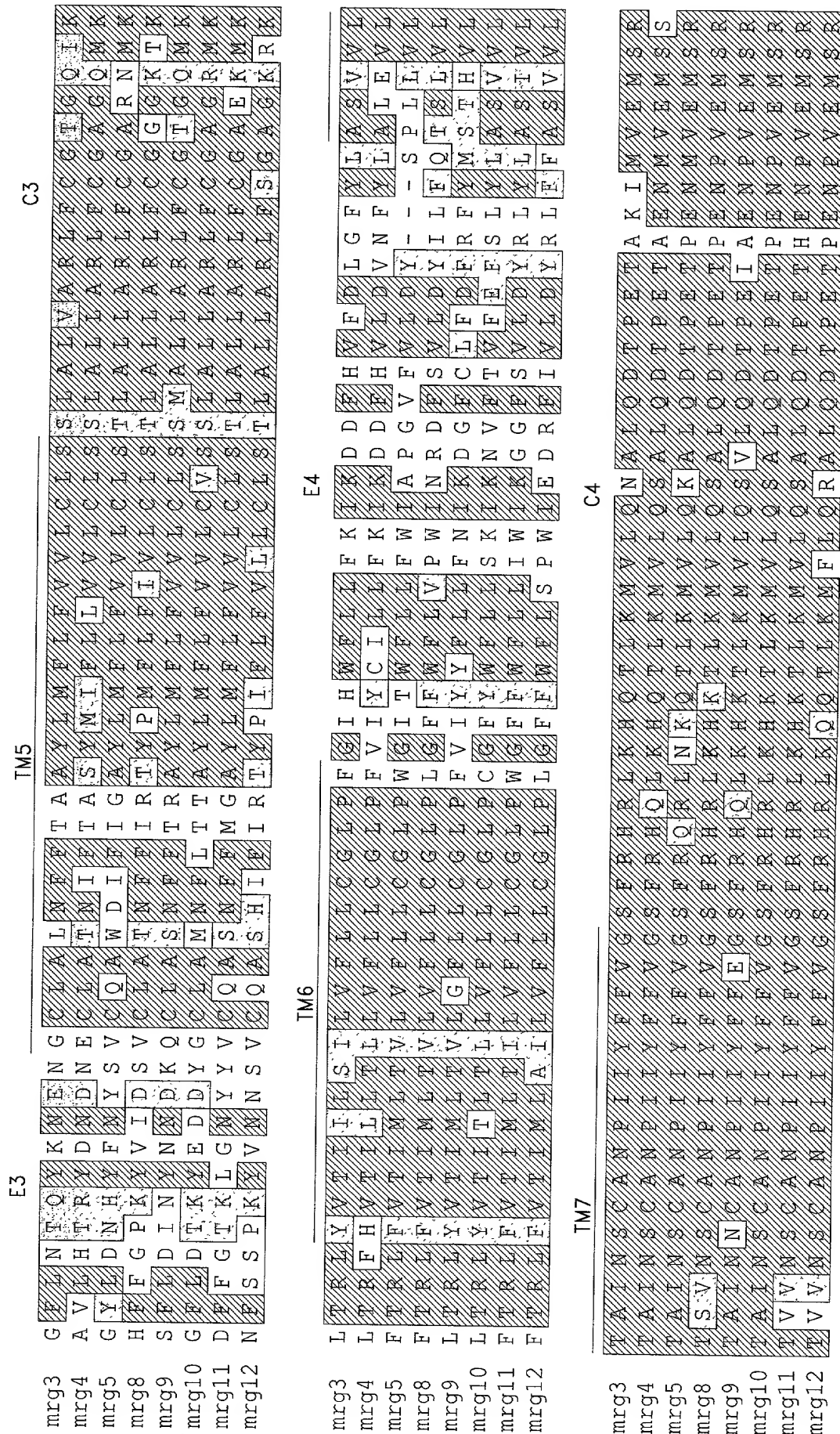
mrg3 LCPIWYHCHRPHTSTMCAVIWVLSLLICILNSYFCGFLNTQYKNENGCLALNFFTAAYLMFLFVVLCLSSLALVA  
 mrg4 LCPIWYHCHRPHTSTMCAAIWVLSLLICILNSYFCGVLHTRYDNDNGCLATNIFTASYMIFLLVVLCLSSLALLA  
 mrg5 LCPIWYHCHRPHTSTMCAVIWVLSLLICILDYFCGYLDNHYFNYSVCQAWDIFIGAYPMFLFVVLCLSTLALLA  
 mrg6 LCPIWYHCHRPHTSTMCAVIWVLSLLICILNSYFCGFLNTQYKNENGCLALSFFTAAYLMFLFVVLCLSSLALVA  
 mrg7 LCPTWYRCHRPVHTSTMCAVIWVLSLLICILNSYFCAVLHTRYDNDNECLATNIFTASYMIFLLVVLCLSSLALLA  
 mrg8 LCPIWYRCHRPHTSTMCAVIWVLSLLICILNRYFCDLFGPKYEINSVCQASEFFIRIYPIFLFVVLCSFTLTLLA  
 Human1 LWPIWYRCHRPHTLSAVCVLLWALSLLRSILEWMLCGFLFSGA-DSAWCQTSDFITVAWLIIFLCVVLGSSILVLLI  
 Human2 LWPIWYRCRRPRHLSAVCVLLWALSLLLSILEGKFCGFLFSDG-DSGWCQTFDFITAAWLIIFLMVLCGSSLALLV

mrg3 RLFCGTGQIKLTRLYVTIMLSILVFLLCGLPFGIHWFLLFKIKDDFHVFDLGFYLASVVLTAINSCANPIIYFFVVG  
 mrg4 RLFCGAGQMKA YQFHVTTLLTLVFLLCGLPIAIYCFLLFKIKGDFHVDVNLVLALEVLTAINSCANPIIYFFVVG  
 mrg5 RLFCGARNMKFTRLFVTIMLTIVLFLLCGLPWGITWFLFWIAPGVFVPDYSPLL---VLTAINSCANPIIYFFVVG  
 mrg6 RLFCGARNMKFTRLFVTIMLTIVLFLLCGLPWGITWFLFWIAPGVFVLDYSPLL---VLTAINSCANPIIYFFVVG  
 mrg7 RLFCGAGQMKLTRFHVTTILLTLVFLLCGLPFVIYCIILFKIKDDFHVLDVNLVLALEVLTAINSCANPIIYFFVVG  
 mrg8 RLFCGAGKKKFTRLFMTIMVTILVFLLCGLPLGFLWLLPWIEGGFSILDYRFFLASLVLTAINSCANPIIYFFVVG  
 human1 RILGSRKIPLTRLYVTILLTLVFLLCGLPFGIQFFLFWIHVDREVLFCHVHLVSIFLSALNSSANPIIYFFVVG  
 human2 RILGSRGLPLTRLYLTILLTLVFLLCGLPFGIQWFLILWIWKDSDVLFCHIHVPVSVLSSLNSSANPIIYFFVVG

FIG. 7

FIG. 1A<sub>1</sub>



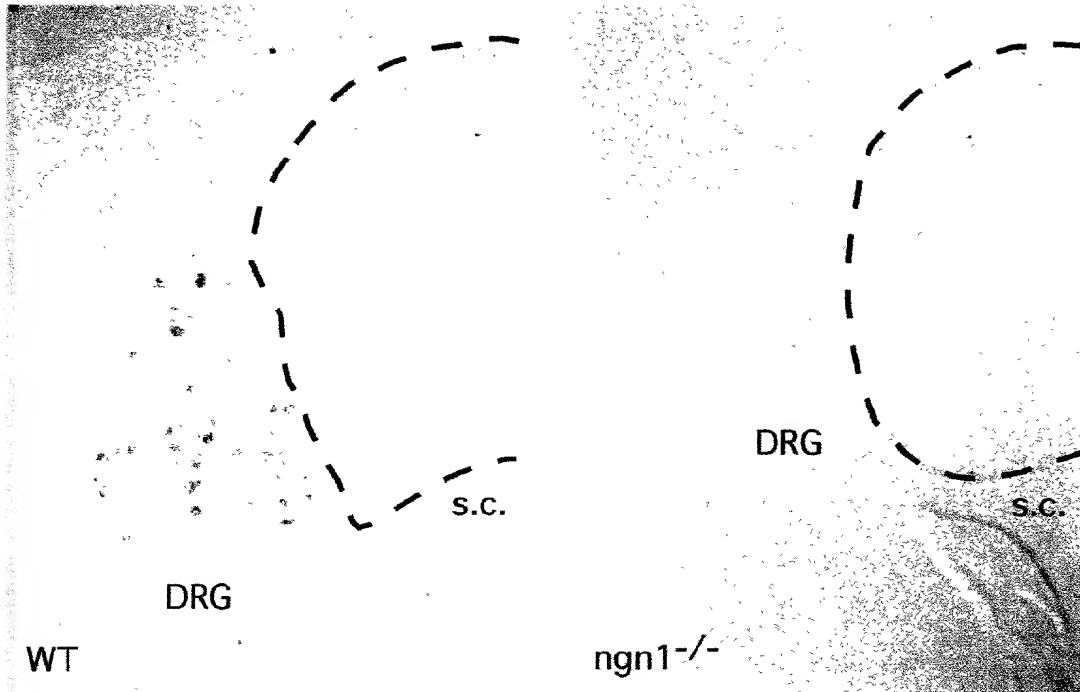


|       |   |   |   |   |   |
|-------|---|---|---|---|---|
| mrg3  | S | K | S | E | P |
| mrg4  | N | K | A | E | P |
| mrg5  | N | K | A | E | P |
| mrg8  | S | K | A | E | P |
| mrg9  | N | I | P | K | P |
| mrg10 | N | K | A | E | L |
| mrg11 | I | K | A | E | Q |
| mrg12 | S | K | A | E | P |

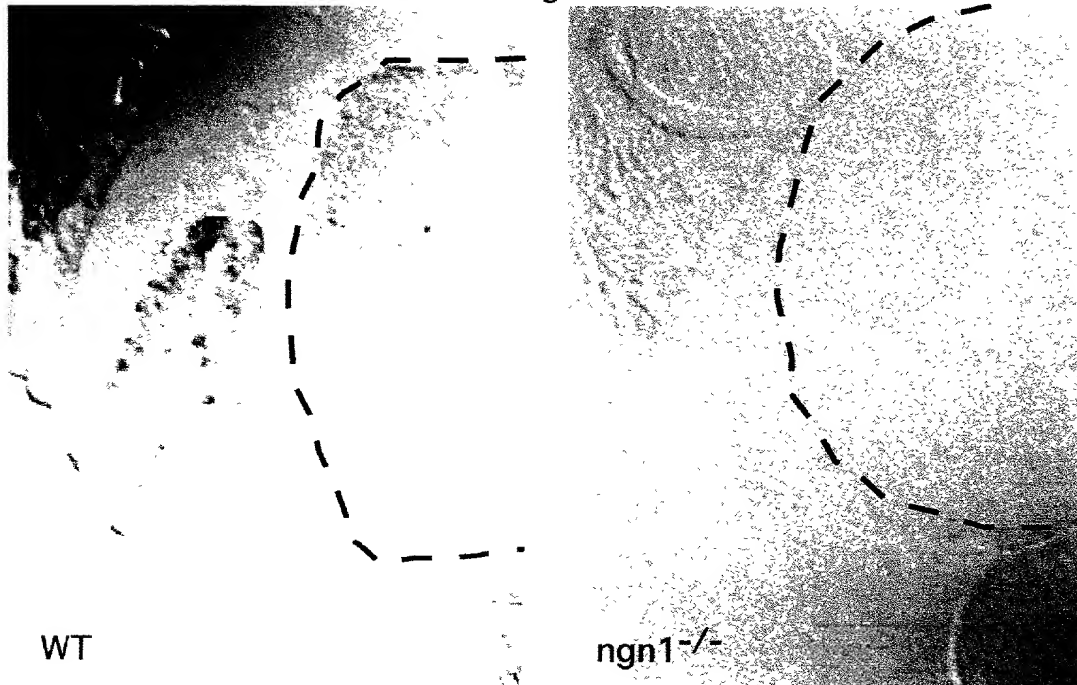
FIG. 1A<sub>3</sub>

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mrg3



mrg4



*FIG. 2*

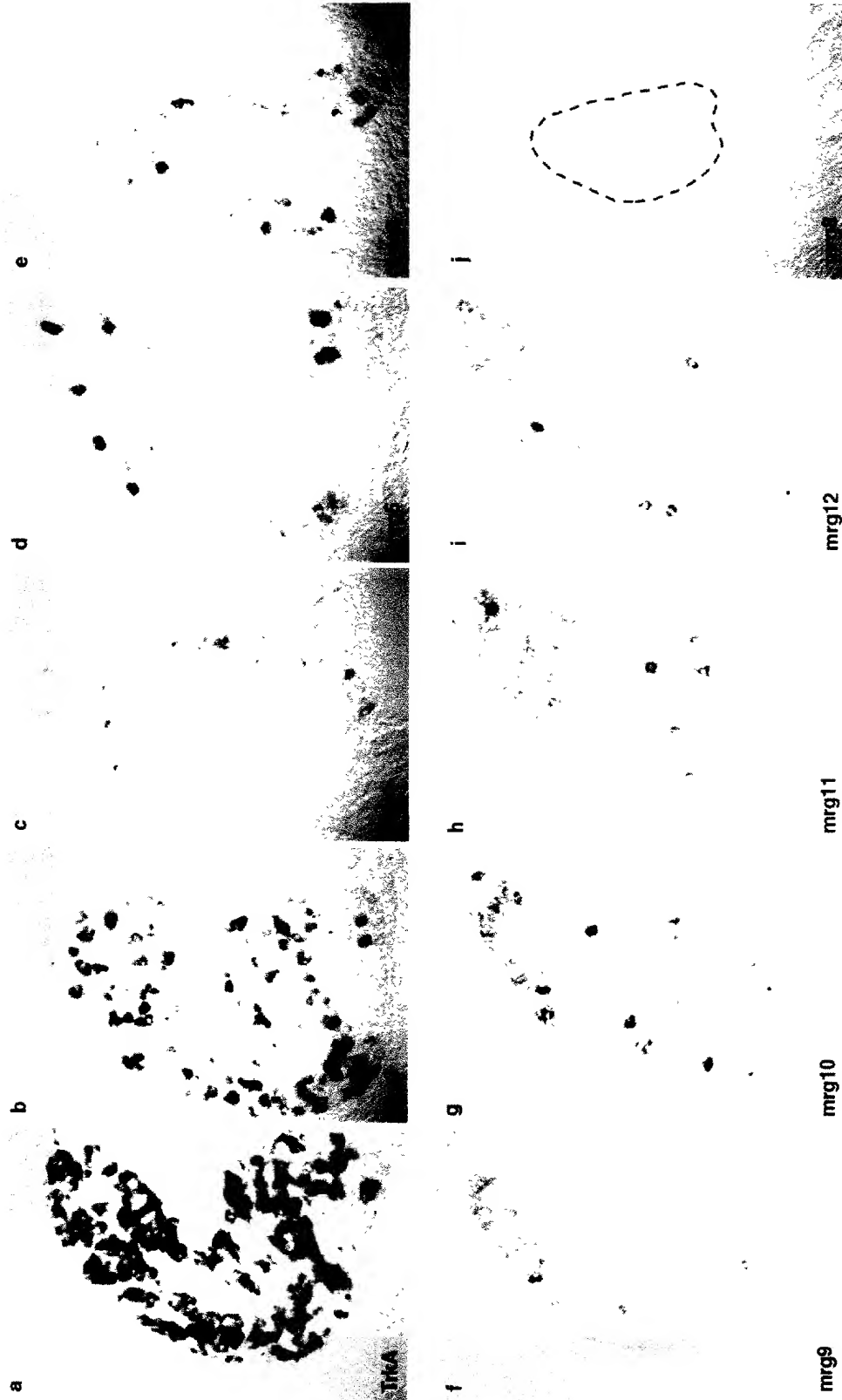
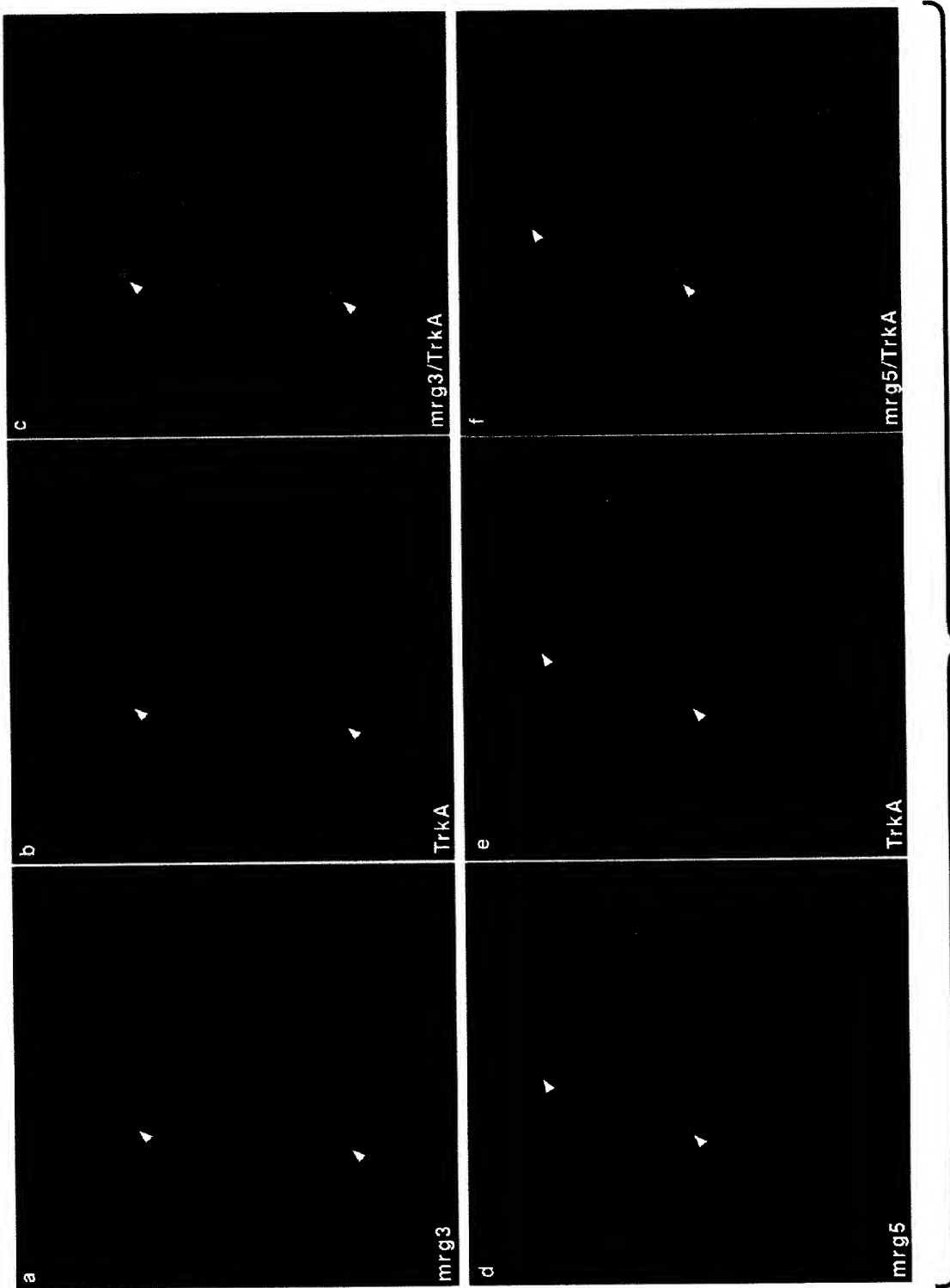
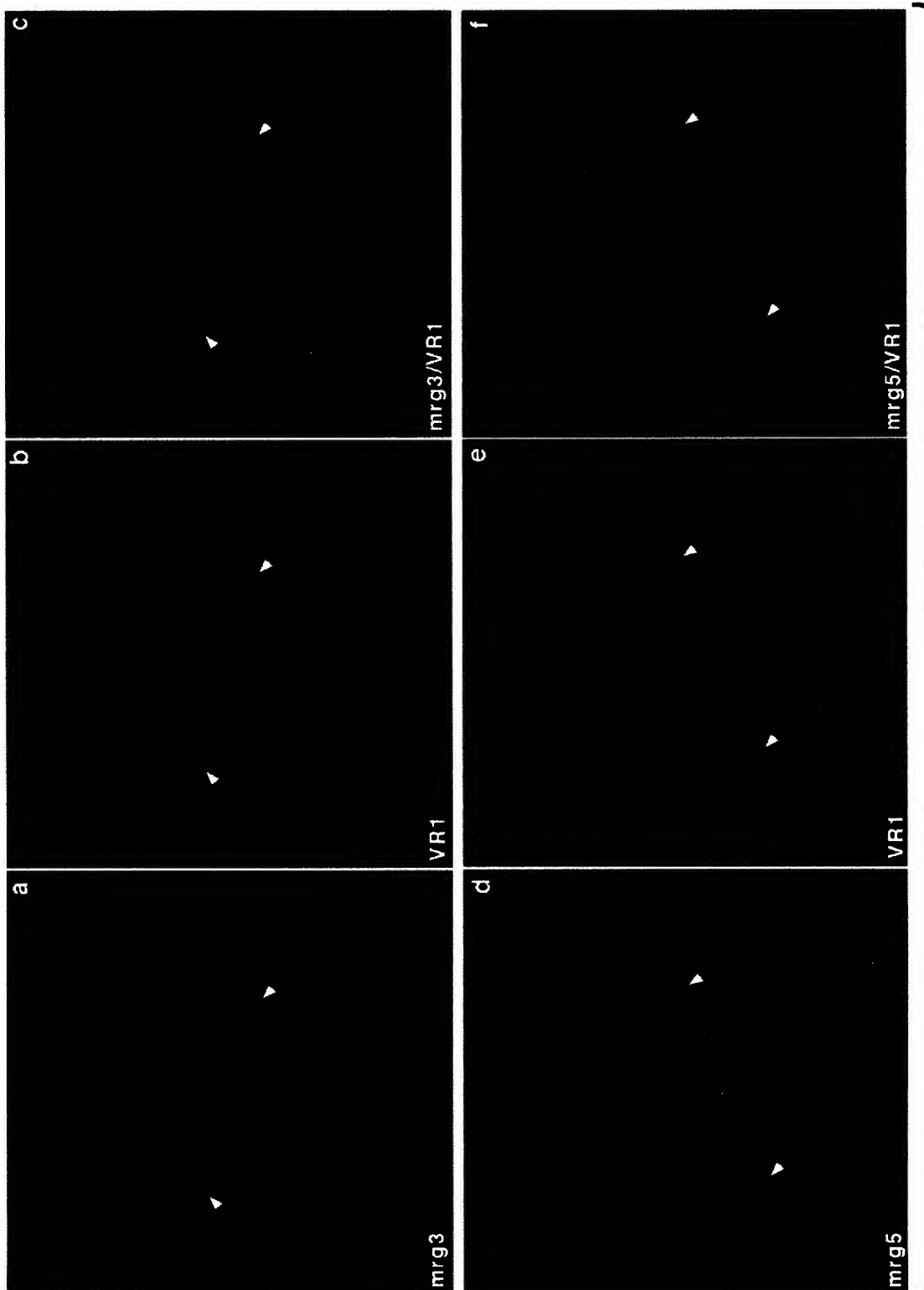


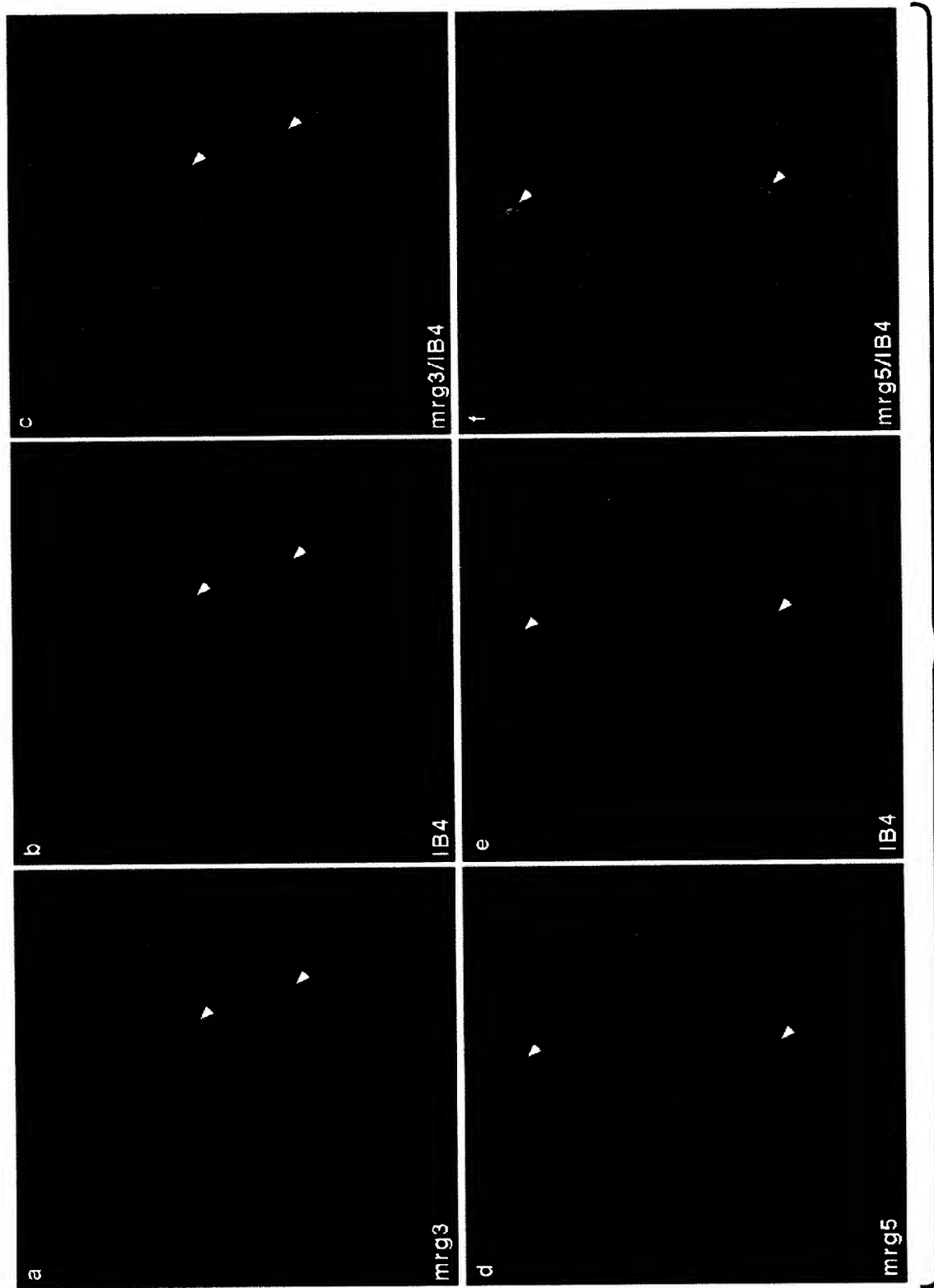
FIG. 2A

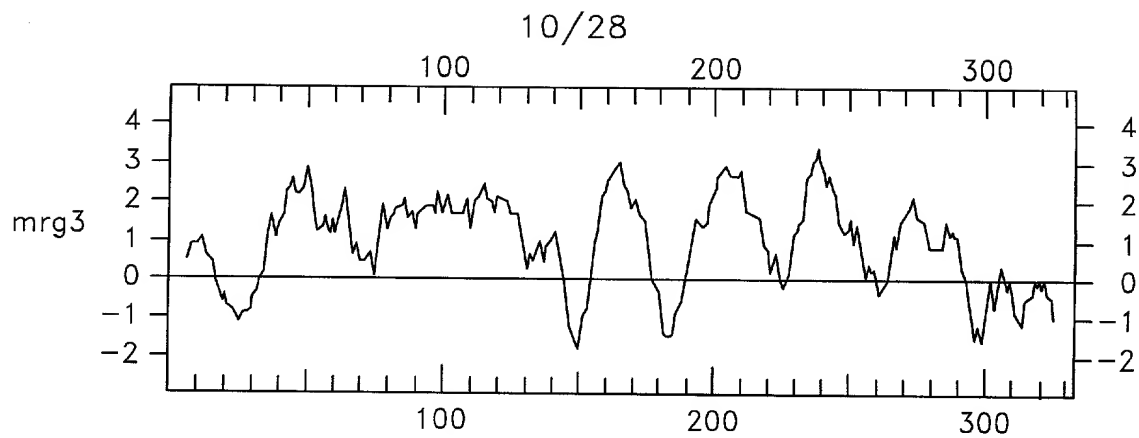


*FIG. 2B*

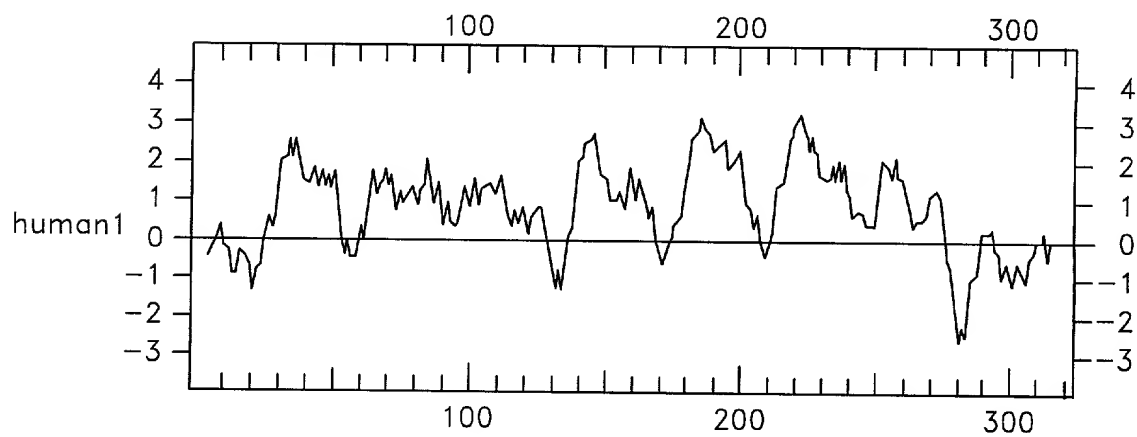


*FIG. 2C*

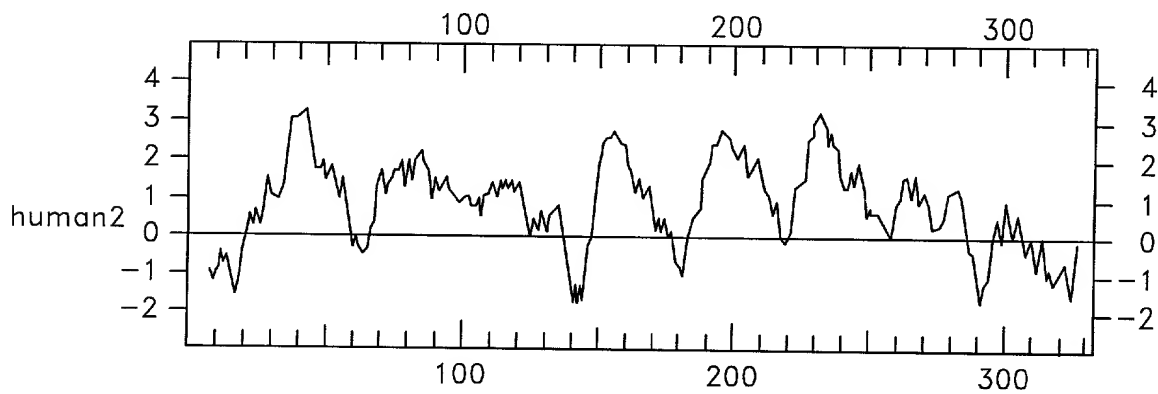




*FIG. 3A*



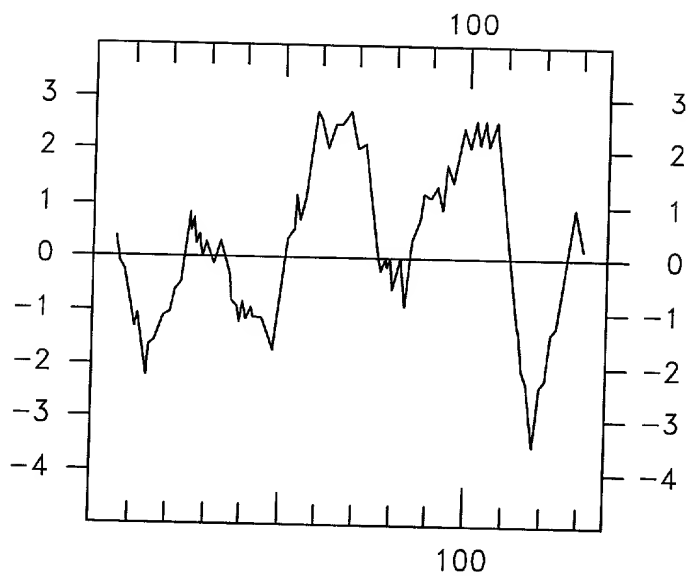
*FIG. 3B*



*FIG. 3C*

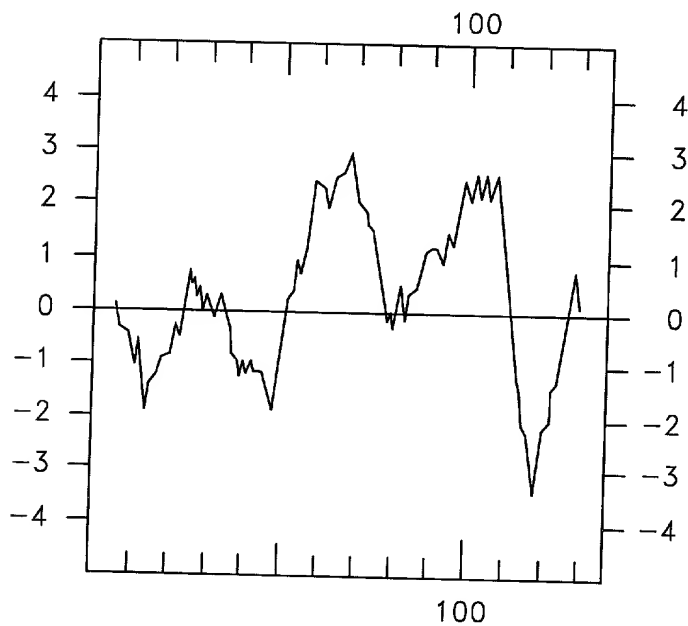
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mouse drg12



*FIG. 4A*

human drg12



*FIG. 4B*

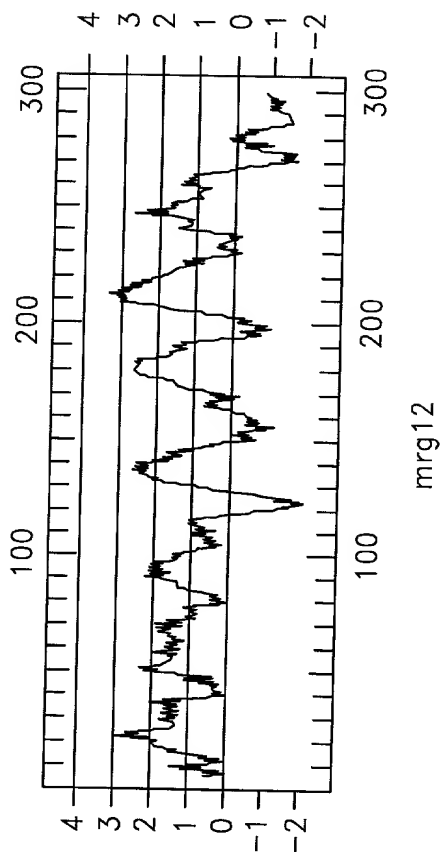
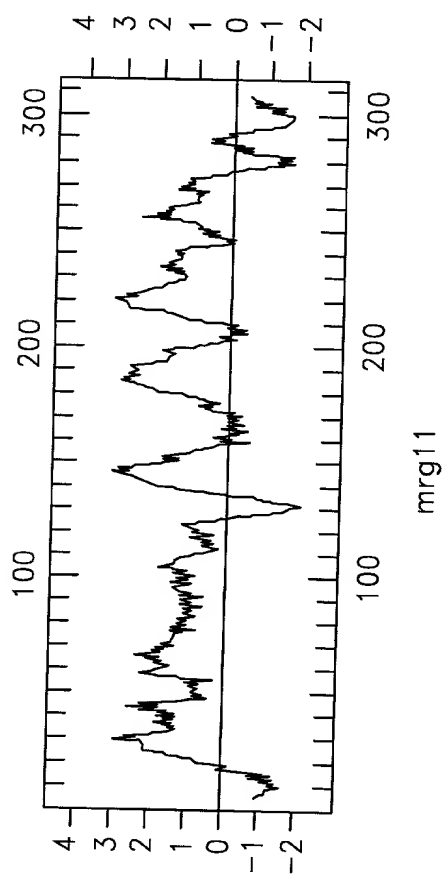
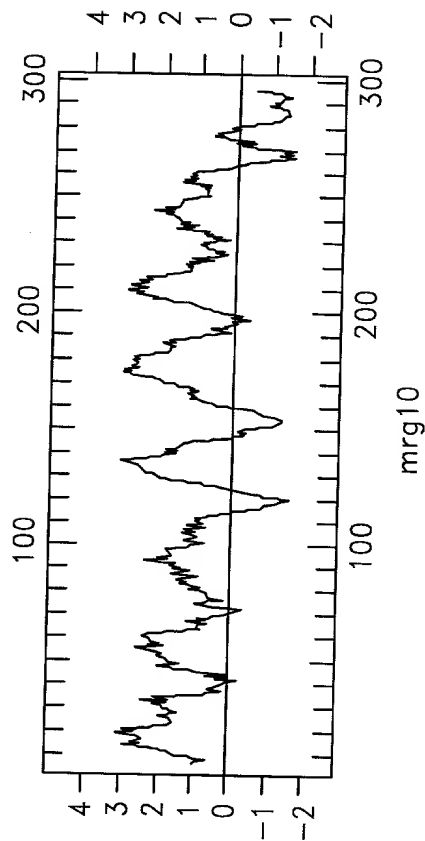
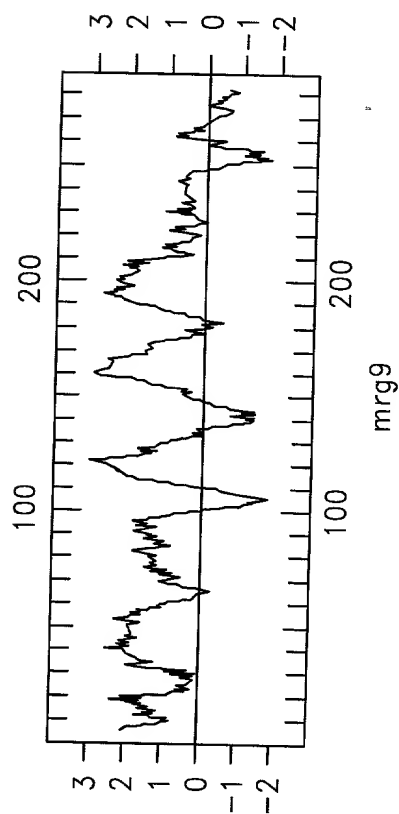


FIG. 5

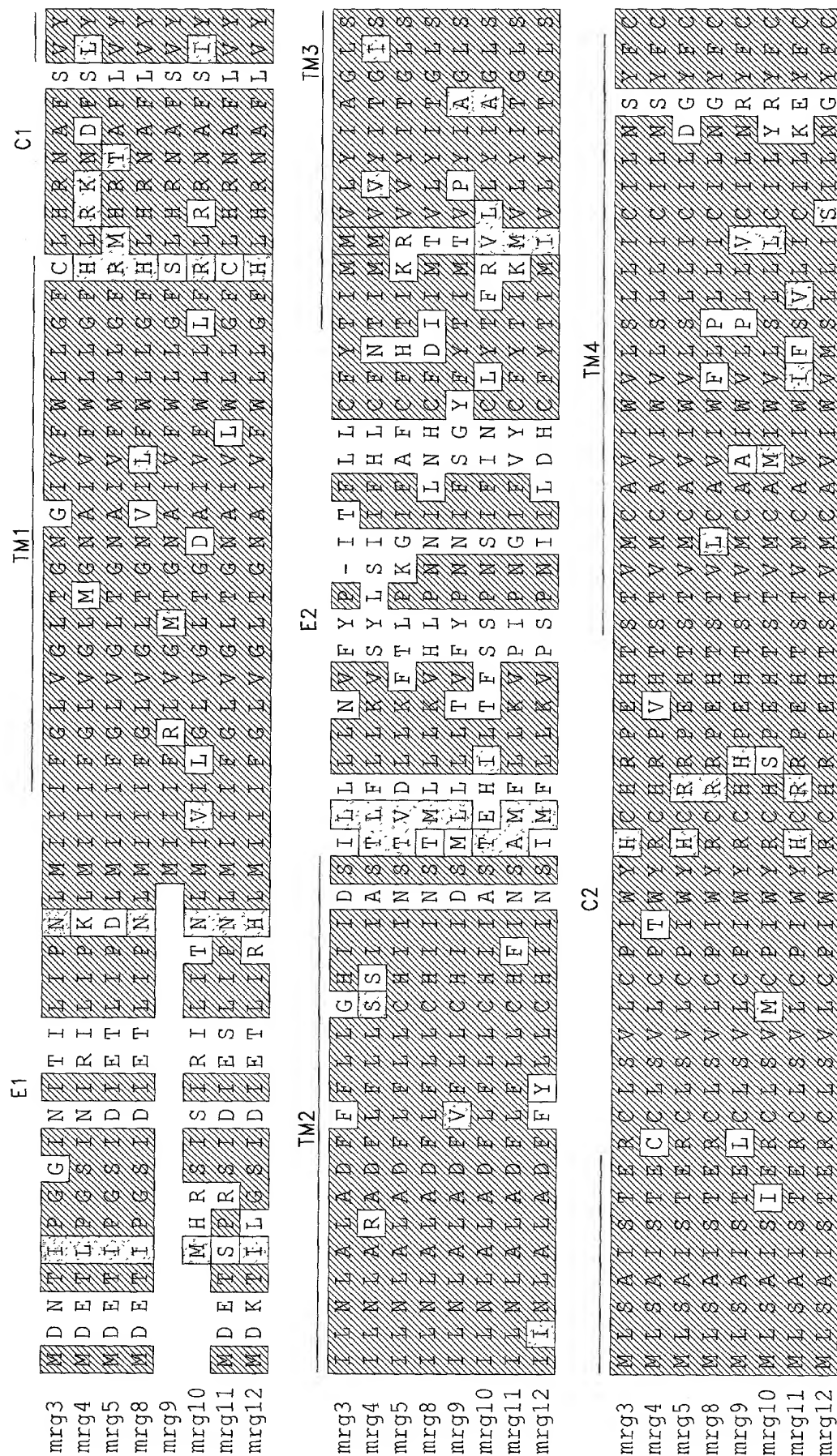


FIG. 6A,

E3

TM5

C3

[illegible]

TM6

E4

[illegible]

TM7

C4

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mr3  | T | A | I | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | N | A | L | Q | D | T | P | E | T | A | K | I | M | V | E | M | S | E |
| mr4  | T | A | I | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | S | A | L | Q | D | T | P | E | T | A | E | N | M | V | E | M | S |   |
| mr5  | T | A | I | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | K | A | L | Q | D | T | P | E | T | A | E | N | M | V | E | M | S |   |
| mr8  | T | A | I | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | S | A | L | Q | D | T | P | E | T | A | E | N | M | V | E | M | S |   |
| mr9  | T | A | I | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | S | A | L | Q | D | T | P | E | T | A | E | N | M | V | E | M | S |   |
| mr10 | T | A | I | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | S | A | L | Q | D | T | P | E | T | A | E | N | M | V | E | M | S |   |
| mr11 | T | V | V | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | S | A | L | Q | D | T | P | E | T | A | E | N | M | V | E | M | S |   |
| mr12 | T | V | V | N | S | C | A | N | P | I | I | Y | F | V | G | S | F | R | H | R | L | K | H | Q | T | L | K | M | V | L | Q | R | A | L | Q | D | T | P | E | T | A | E | N | M | V | E | M | S |   |

|       |   |   |   |   |   |
|-------|---|---|---|---|---|
| mrg3  | S | K | S | E | P |
| mrg4  | N | K | A | E | P |
| mrg5  | N | K | A | E | P |
| mrg8  | S | K | A | E | P |
| mrg9  | N | I | P | K | P |
| mrg10 | N | K | A | E | L |
| mrg11 | I | K | A | E | Q |
| mrg12 | S | K | A | E | P |

FIG. 6A<sub>3</sub>

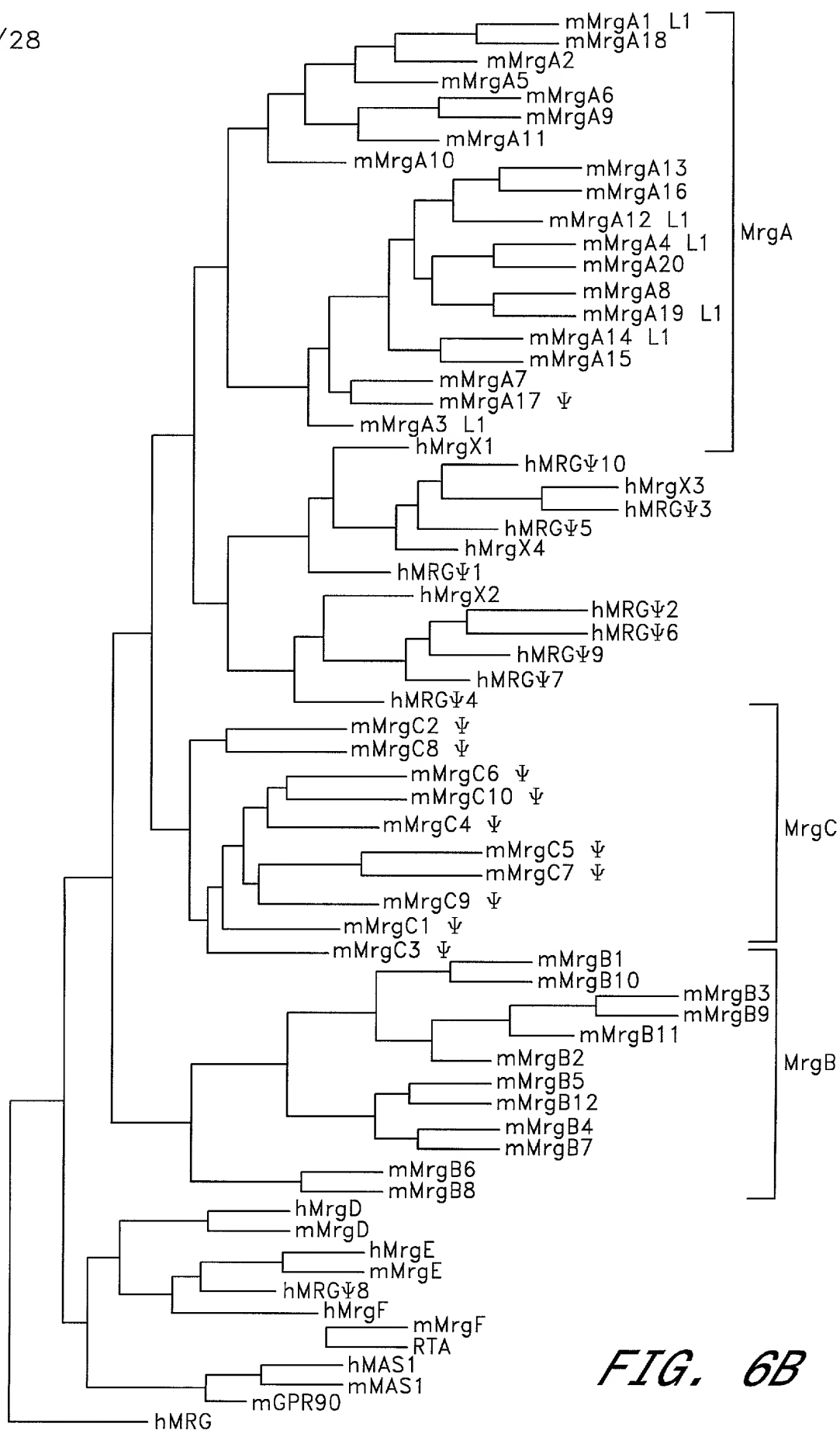
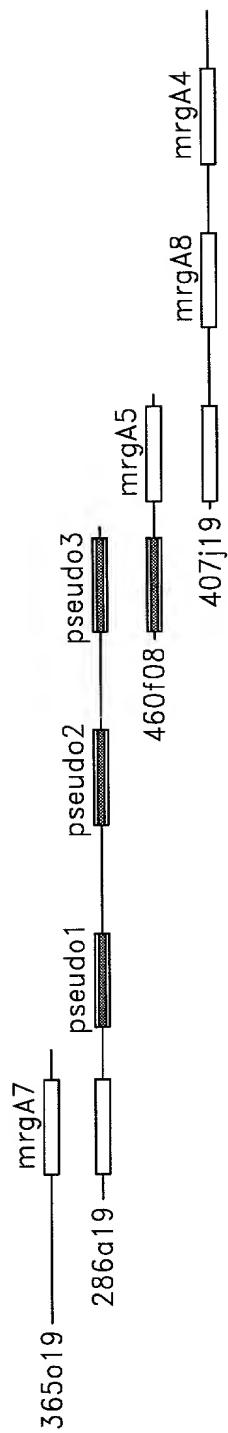


FIG. 6B



*FIG. 6C*

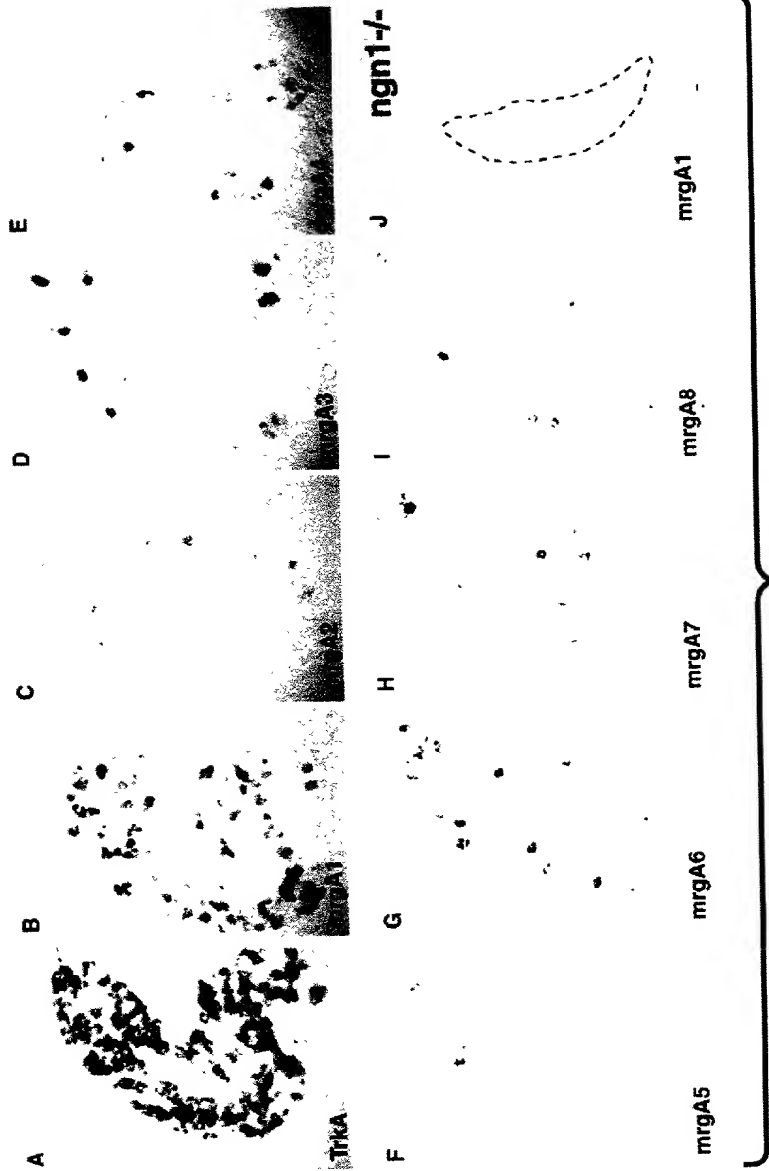


FIG. 7

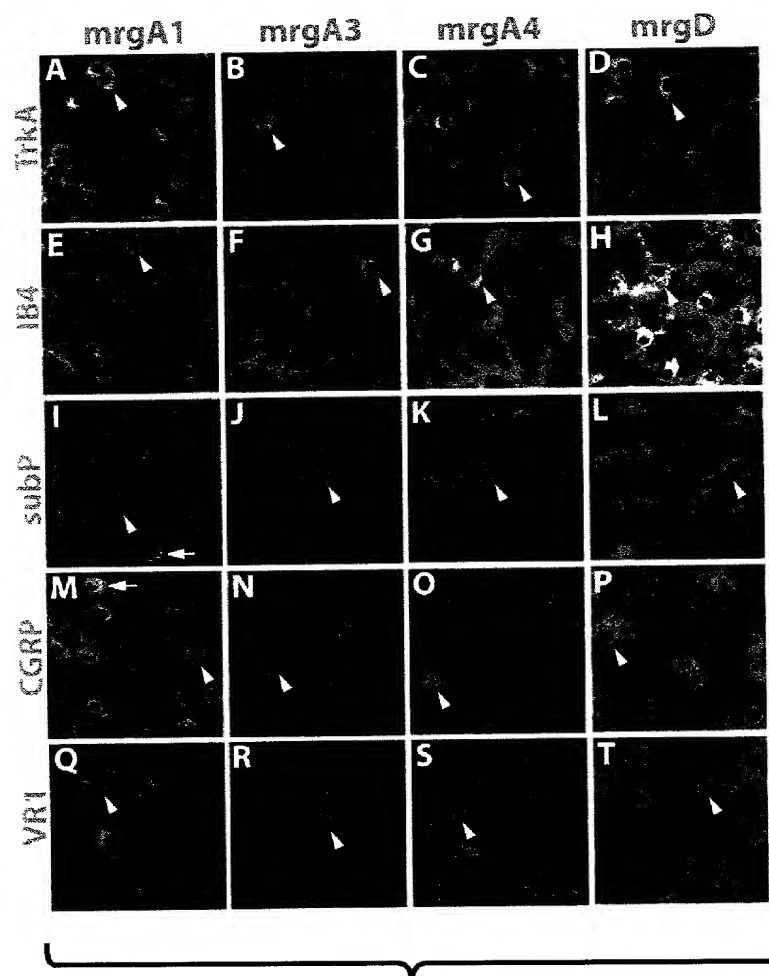
*FIG. 8*

FIG. 9

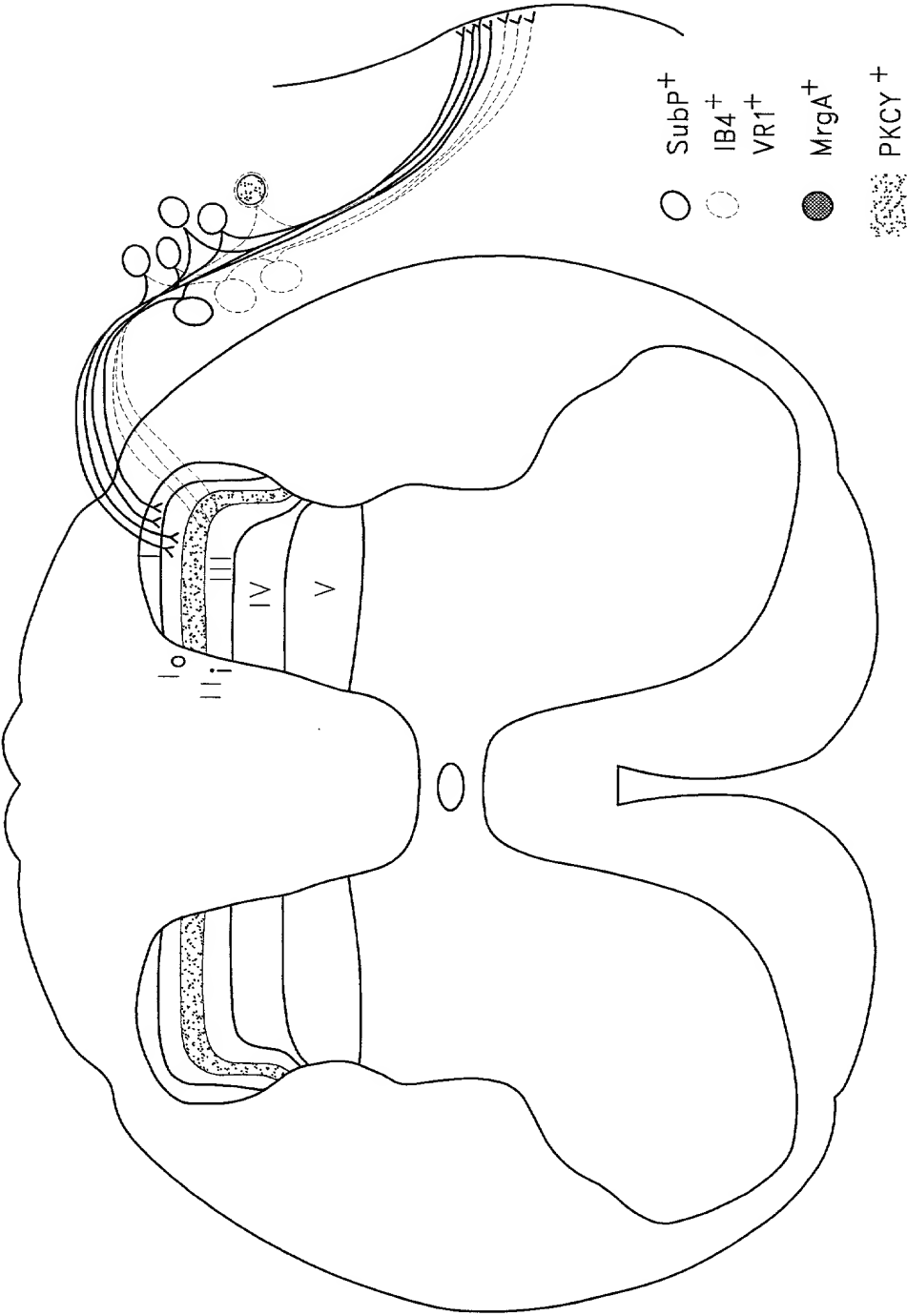
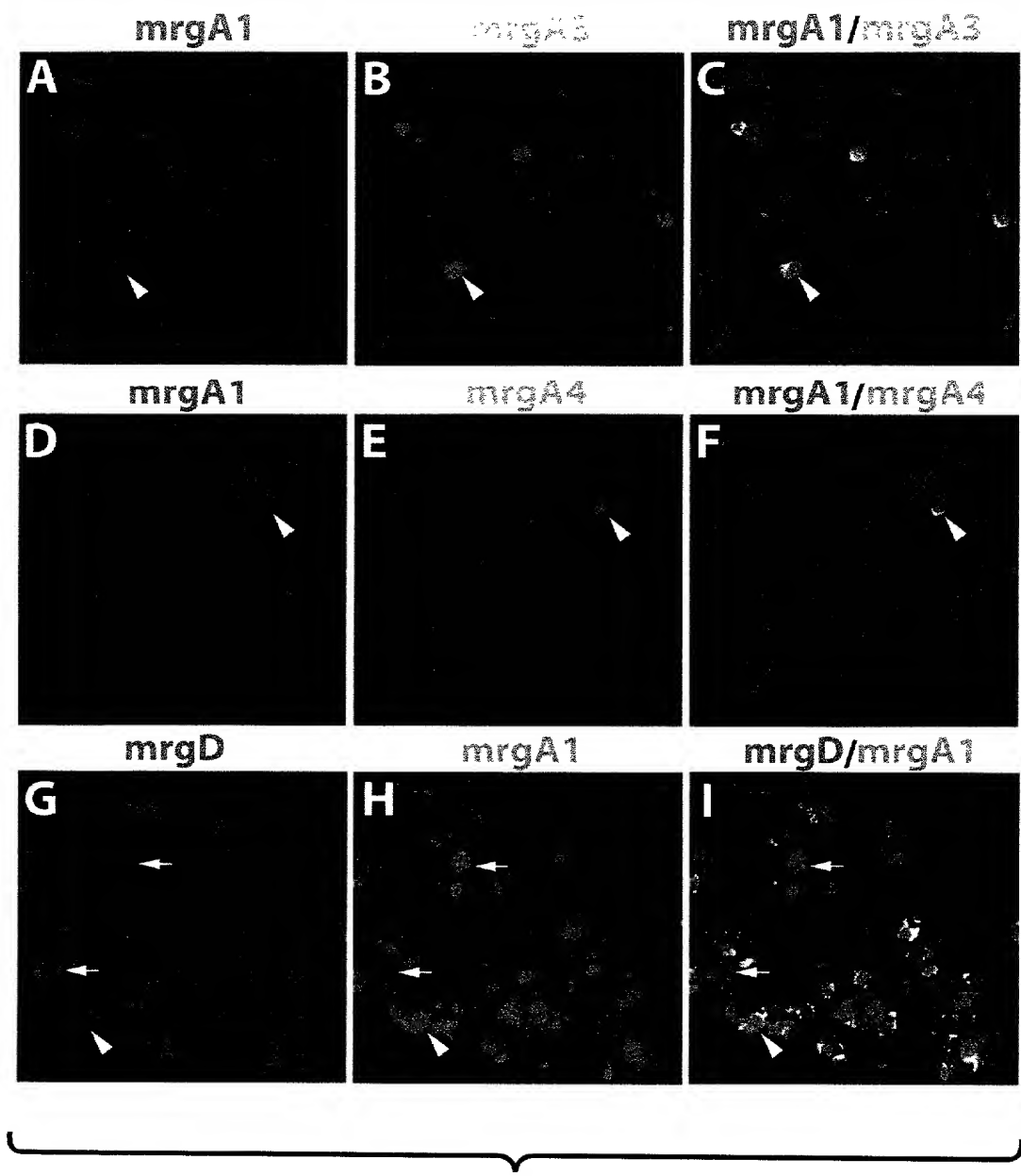
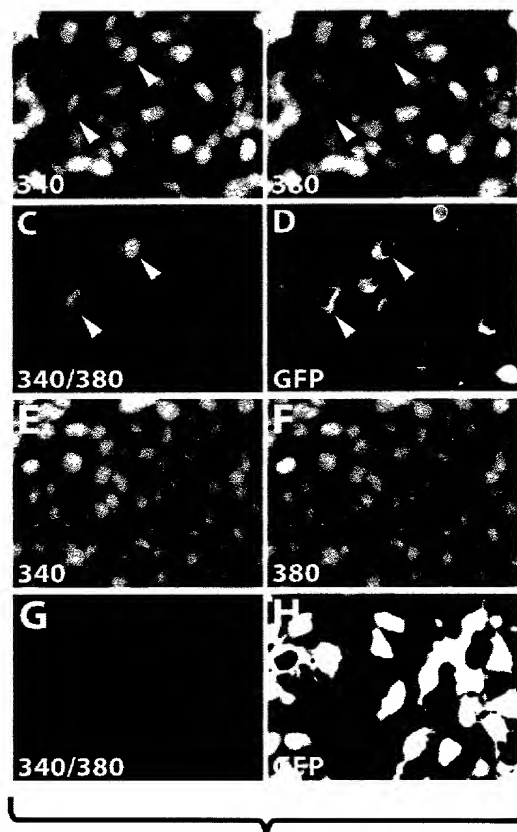


FIG. 9



*FIG. 10*



*FIG. 11*

FIG. 12A

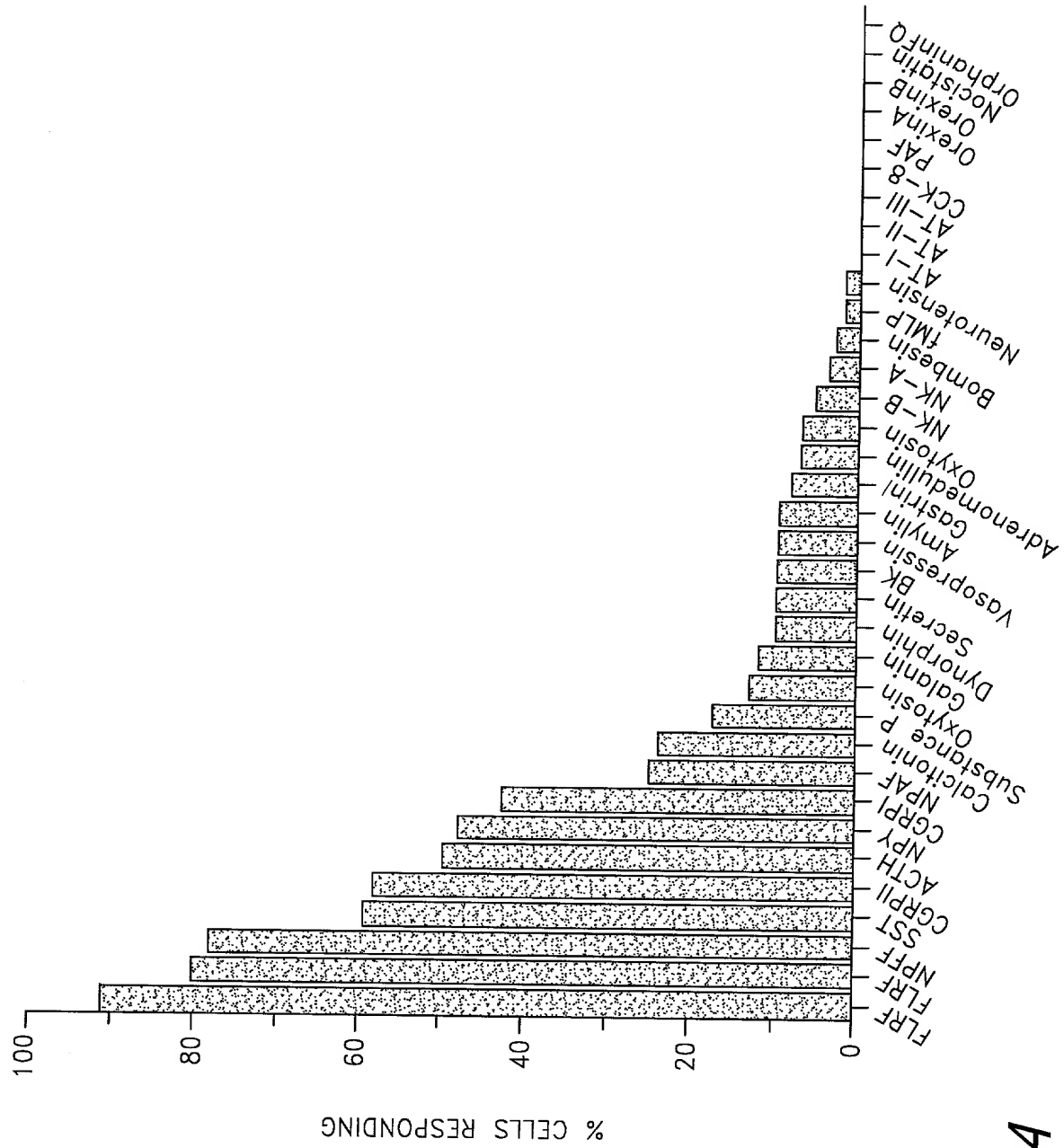


FIG. 12A

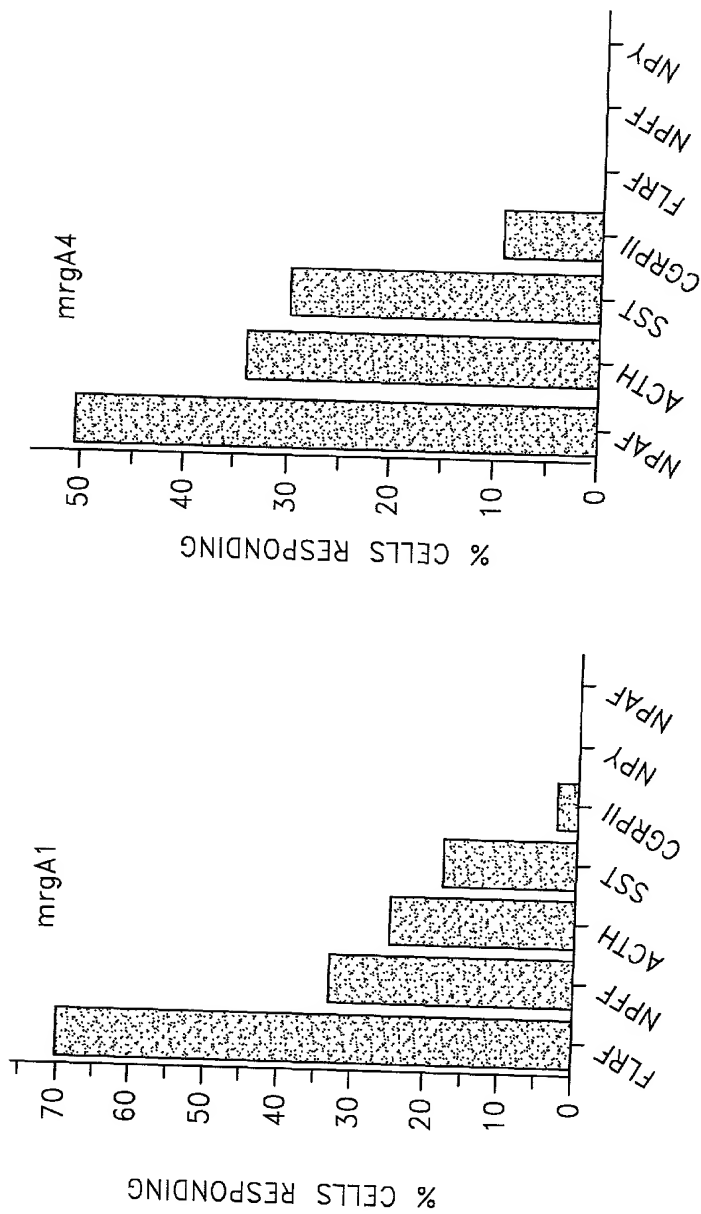


FIG. 12B

FIG. 12C

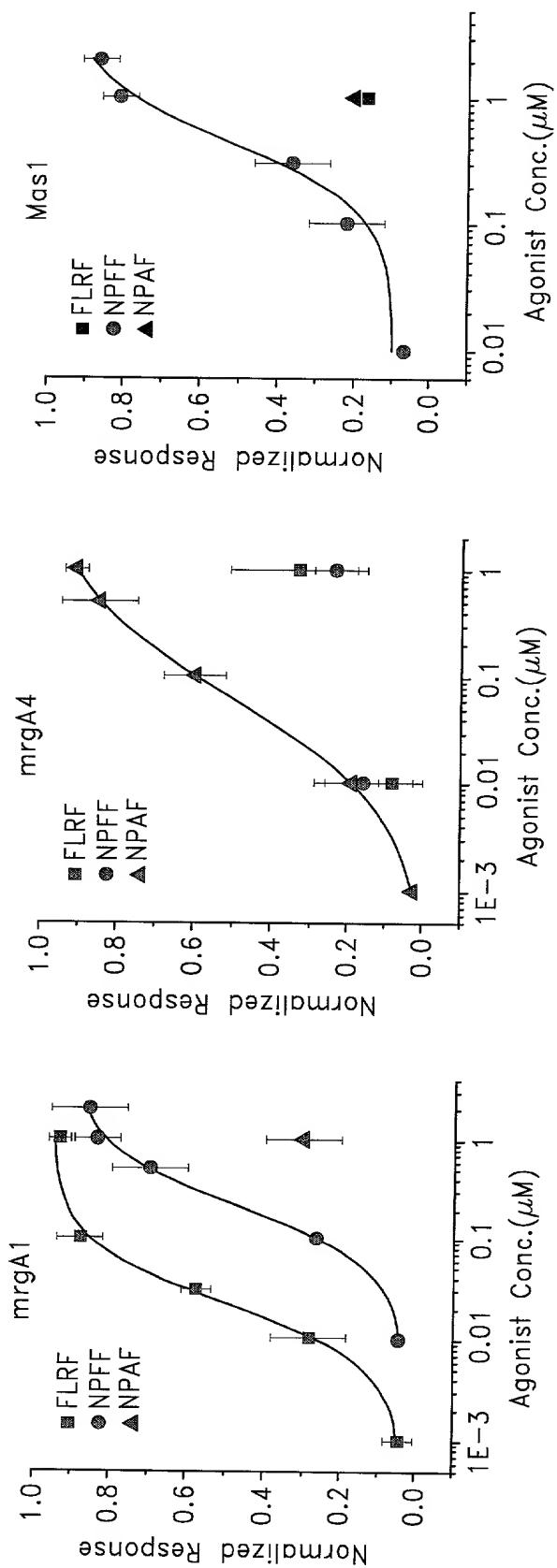
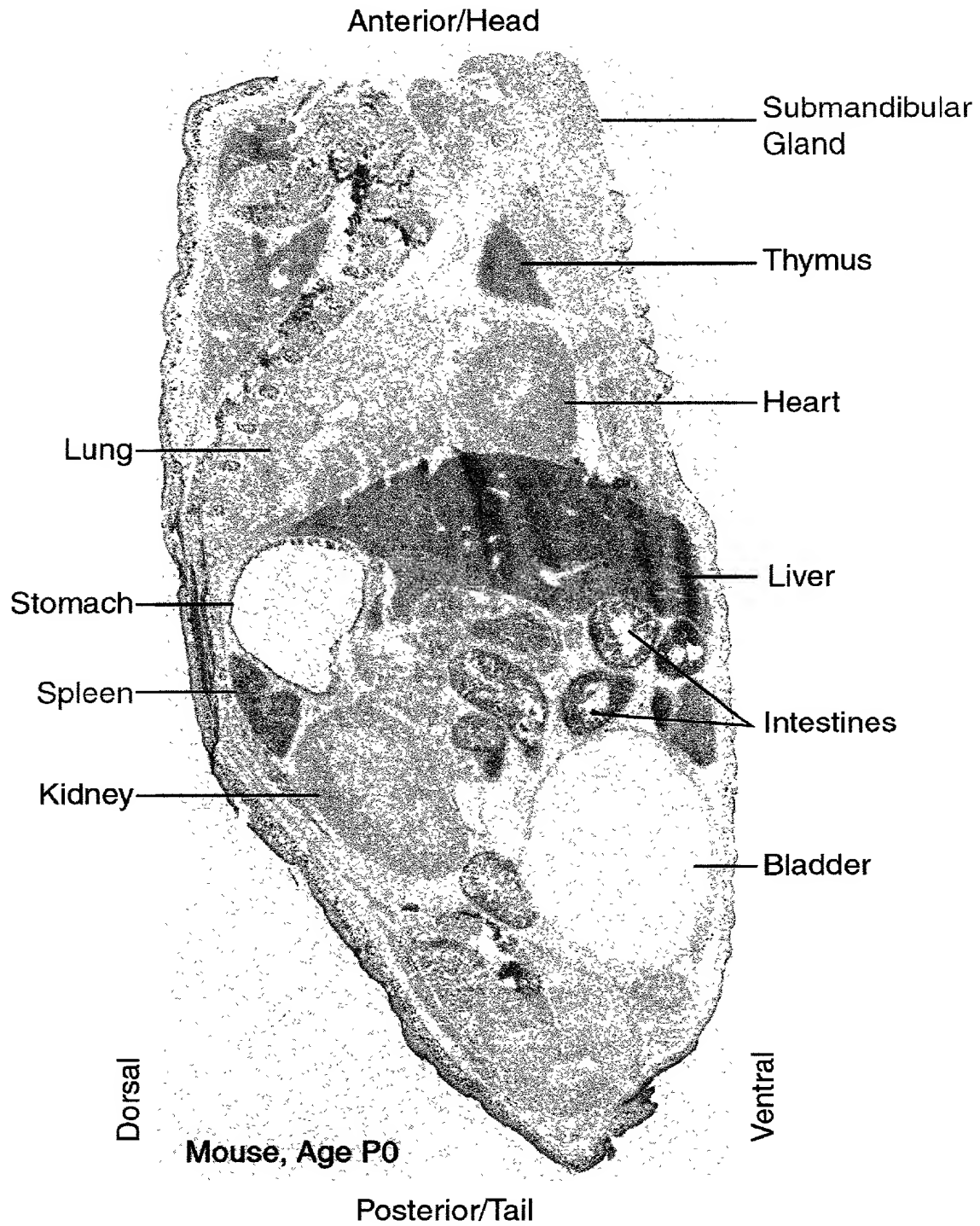


FIG. 12D

FIG. 12E

FIG. 12F

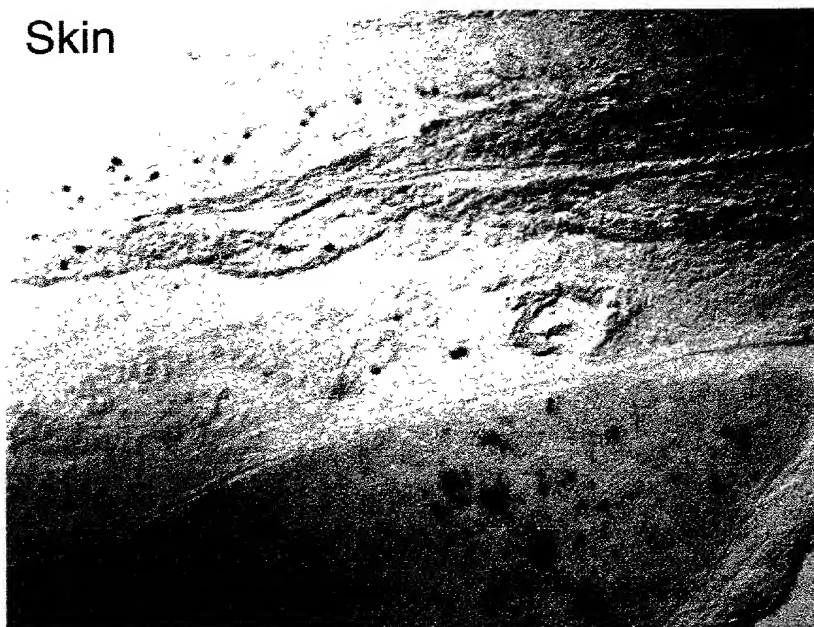
# mMrgB1



**FIG. 13**

mMrgB1

Skin



*FIG. 14*

# mMrgD in Adult DRG

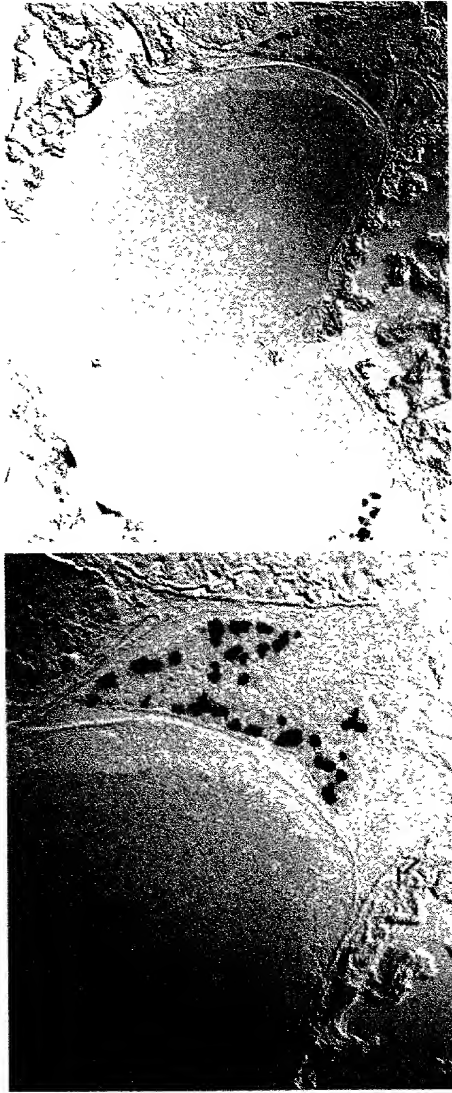


FIG. 15